

8X20 Octupole Magnet Parameters

May 26, 2000

Magnetic Field Parameters @ 2000 Amps:

B = 7.1 kG Pole Tip

Integral Field = 162.733 kG-inch

Effective length = 22.9 inch

B = 3.1 kG at R = 3"

Integral Field = 68.482 kG-inch

Effective length = 22.1 inch

Gap = 8.125"

Resistance = $\sim .028 \Omega$

Maximum Current @ 40° F $\Delta T = \sim 2300$

Voltage @ 2000 Amps = ~ 57 Volts

Flow @ 125 PSI $\Delta P = \sim 27.5$ GPM

8 Water Paths

Weight = ~ 1500 LBS